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AIChE CCPS Process Safety Professional Certification Sample Questions (Q101-Q106):

NEW QUESTION # 101

Which of the following conditions could indicate performance problems in a plant's Asset Integrity program?

(select all that apply)

- A. Piping handling hazardous material within a containment area is not on the inspection list
- B. An operator can identify each piece of equipment on the maintenance schedule and explain what is planned
- C. The metrics report related to Asset Integrity performance is 9 months out of date
- D. The rotating equipment is vibrating excessively

Answer: A,C,D

Explanation:

The correct answers are B, C, and D because they represent clear indicators of deficiencies in the Mechanical Integrity (Asset Integrity) program, as defined by CCPS.

Option B is correct because outdated metrics (9 months old) indicate poor performance monitoring and lack of timely oversight. CCPS stresses that asset integrity programs must use current, accurate data to track inspection, testing, and maintenance effectiveness.

Option C is also correct because excessive vibration in rotating equipment is a well-known sign of potential mechanical failure, such as imbalance, misalignment, or bearing issues. This suggests inadequate condition monitoring or maintenance practices.

Option D is critical because piping containing hazardous materials that is not included in inspection programs represents a serious gap. CCPS requires that all critical equipment be identified, risk-ranked, and included in inspection and maintenance plans. Missing such equipment indicates a breakdown in the integrity management system.

Option A reflects good practice, showing operator awareness and effective communication, not a problem.

Overall, CCPS emphasizes that effective asset integrity programs require accurate tracking, proactive monitoring, and comprehensive equipment coverage to prevent loss of containment.

NEW QUESTION # 102

A strong Management of Change system should ensure that: (select all that apply)

- A. Root causes are identified
- B. Emergency changes do not require Management of Change controls
- C. Temporary changes are returned to normal by the required date
- D. Adequate evaluations of the potential safety and health impacts are performed
- E. Appropriate updates have been made to the preventive maintenance requirements

Answer: A,C,D,E

Explanation:

The correct answers are B, C, D, and E because these align directly with CCPS expectations for a robust Management of Change (MOC) system under Risk-Based Process Safety.

C (adequate safety and health evaluations) is fundamental to MOC. CCPS requires that all changes—whether in equipment, procedures, chemicals, or organization—be reviewed for potential process safety impacts before implementation.

D (updates to preventive maintenance requirements) is also essential. Changes can affect equipment reliability and degradation mechanisms, so inspection, testing, and maintenance programs must be updated accordingly to maintain asset integrity.

E (management of temporary changes) is a key CCPS requirement. Temporary changes must be tracked, reviewed, and either made permanent through full MOC or reverted by a defined expiration date to prevent them from becoming uncontrolled permanent conditions.

B (root causes identified) is indirectly relevant, as changes often arise from incident learnings, and MOC should incorporate lessons learned to prevent recurrence.

Option A is incorrect because emergency changes still require MOC controls, though they may follow an expedited process. CCPS clearly states that all changes must be managed to ensure risks are properly evaluated and controlled.

NEW QUESTION # 103

A facility's process safety staff does consequence modeling for releases of various toxic substances that the facility handles. Which elements of Risk Based Process Safety would be most likely to use the results of this modeling? (Select all that apply)

- A. Hazard Identification and Risk Analysis
- B. Emergency Management
- C. Measurement and Metrics
- D. Operational Readiness
- E. Stakeholder Outreach

Answer: A,B,E

Explanation:

The correct answers are C (Stakeholder Outreach), D (Hazard Identification and Risk Analysis), and E (Emergency Management) because consequence modeling is fundamentally used to understand the potential impact of hazardous material releases and to support risk-informed decision-making across these RBPS elements.

Within Hazard Identification and Risk Analysis (HIRA), consequence modeling is a core analytical tool used in studies such as HAZOP, LOPA, and quantitative risk assessments (QRA). It helps estimate the severity of potential release scenarios, including toxic dispersion, which directly supports risk evaluation and safeguards selection.

For Emergency Management, modeling results are essential to plan effective response strategies. They define hazard zones, evacuation distances, shelter-in-place decisions, and emergency resource allocation. CCPS emphasizes that credible worst-case and alternative release scenarios should guide emergency preparedness planning.

In Stakeholder Outreach, consequence modeling provides critical information for communicating risks to external parties such as local communities, regulators, and emergency responders. This aligns with CCPS guidance on transparency and community awareness, ensuring stakeholders understand potential offsite consequences.

Operational Readiness (A) focuses on startup and system preparedness, not consequence modeling outputs.

Measurement and Metrics (B) deals with performance indicators rather than predictive hazard analysis.

Therefore, they are less directly connected to the use of consequence modeling results.

NEW QUESTION # 104

When should worker refresher training be done? (select all that apply)

- A. When there is a gap between a worker's knowledge and the knowledge needed to do a job
- B. After the Process Safety program audit
- C. When training is required by law or regulation
- D. When production schedules permit
- E. Before implementation of a process change

Answer: A,B,C,E

Explanation:

The correct answers are B, C, D, and E because CCPS emphasizes that refresher training must be risk-based, need-driven, and triggered by specific conditions, rather than convenience.

Option B is correct because regulatory requirements often mandate periodic refresher training, ensuring compliance and maintaining competency.

Option C is critical because refresher training should be provided whenever there is a recognized gap in knowledge or skills. This aligns with CCPS's focus on maintaining workforce competency and preventing human error.

Option D is also correct because audits may identify deficiencies in knowledge, performance, or program implementation, triggering the need for additional training.

Option E is correct because any process change (via MOC) may introduce new hazards or operating conditions, requiring updated training before implementation.

Option A is incorrect because training should not be scheduled based on convenience or production priorities.

CCPS stresses that training is a safety-critical activity that must be prioritized based on risk and need.

Overall, refresher training is essential for ensuring that personnel remain competent, informed, and capable of operating safely under changing conditions.

NEW QUESTION # 105

The XYZ Corporation decides to track an activity as shown in the diagram. They interpret the results to indicate a possible deteriorating performance in one of their process safety management elements.

Answer:

Explanation:

Workforce Involvement

Explanation:

The correct answer is Workforce Involvement because the chart tracks the number of industry group meetings at which company presenters shared significant lessons learned, and the trend is clearly declining over time.

This metric reflects how actively personnel are engaging externally, sharing knowledge, and contributing to industry learning, which are key aspects of workforce involvement. A decreasing trend suggests reduced participation, knowledge sharing, and engagement-

indicating potential weakening in this element.

While Measurement and Metrics is involved in tracking the data, it is not the element being degraded-it is simply the tool used to identify the issue. The underlying concern is behavioral and engagement-related, which aligns with Workforce Involvement.

This activity also touches on learning culture, but within CCPS RBPS, active participation, sharing lessons learned, and engagement in industry forums are core indicators of a strong Workforce Involvement element.

A decline in such participation may signal:

Reduced emphasis on learning from others

Lower employee engagement

Weakening process safety culture

CCPS stresses that strong organizations promote active knowledge sharing internally and externally, making this trend a meaningful leading indicator of declining workforce involvement.

NEW QUESTION # 106

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